

C6225232

MODEL 700™ M24

Model 700 M24™

Action

Barrel Length

Capacity

Order No. 5716

*Includes 1 in chamber.

Remington®

Serial Number:

C6225232

Model: M24 SWS



RE00093008

BARBER - M24 **M2400011151**

SNIPER WEAPON SYSTEM - UNIQUE STATISTICAL INFORMATION

FIREARM SERIAL NUMBER / DATASET NAME: C6225232.__1

FILE DATE AND TIME: 09/06/2005 07:05

THE FOLLOWING DATA IS ALL REPORTED IN UNITS OF INCHES

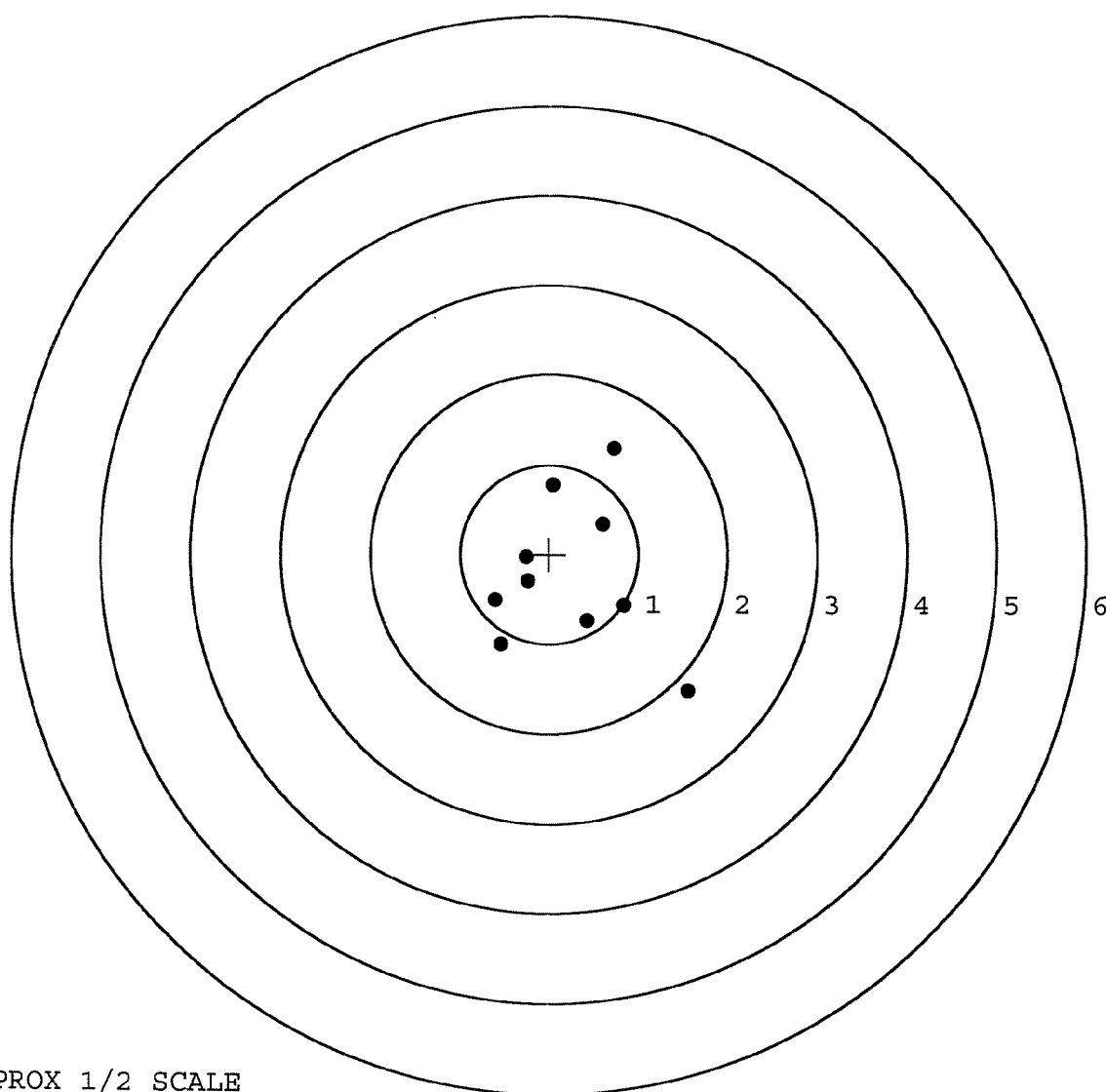
The Average X Centroid of the Five Target Set:	0.061
The Average Y Centroid of the Five Target Set:	-0.157
The Average Point of Impact of the Five Target Set:	0.168
The Average Mean Radius of the Five Target Set:	1.022
The Distance from POA to Centroid Target #1:	0.350
The Distance from Centroid Target #2 to Centroid Target #1:	0.194
The Distance from Centroid Target #3 to Centroid Target #1:	0.808
The Distance from Centroid Target #4 to Centroid Target #1:	0.156
The Distance from Centroid Target #5 to Centroid Target #1:	0.124

BARBER - M24 0011114

SERIAL NUMBER: C6225232. __1
 TARGET NUMBER: 1
 FILE DATE: 09/06/2005
 FILE TIME: 07:05

POINT#	X	Y
1:	1.556	-1.526
2:	0.431	-0.744
3:	0.844	-0.568
4:	0.603	0.345
5:	0.728	1.186
6:	0.043	0.779
7:	-0.264	-0.034
8:	-0.245	-0.305
9:	-0.607	-0.517
10:	-0.543	-1.012

X CENTROID: 0.255
 Y CENTROID: -0.240
 POA TO CENTROID: 0.350
 HORZ SPREAD: 2.163
 VERT SPREAD: 2.712
 GROUP SPREAD: 2.836
 MIN RADIUS: 0.504
 MAX RADIUS: 1.830
 MEAN RADIUS: 0.934
 # IN 1 IN DIAMETER: 0
 # IN 2 IN DIAMETER: 6
 # in 3 IN DIAMETER: 8



TARGET APPROX 1/2 SCALE

BARBER - M24 0011115

SERIAL NUMBER: C6225232. __1

TARGET NUMBER: 2

FILE DATE: 09/06/2005

FILE TIME: 07:05

POINT#	X	Y
1:	1.399	-0.290
2:	0.540	-0.591
3:	0.549	0.397
4:	0.889	0.935
5:	0.208	0.254
6:	-0.678	0.704
7:	-1.701	0.632
8:	-0.679	-0.669
9:	-0.076	-1.798
10:	0.160	-2.155

X CENTROID: 0.061

Y CENTROID: -0.258

POA TO CENTROID: 0.265

HORZ SPREAD: 3.100

VERT SPREAD: 3.090

GROUP SPREAD: 3.351

MIN RADIUS: 0.533

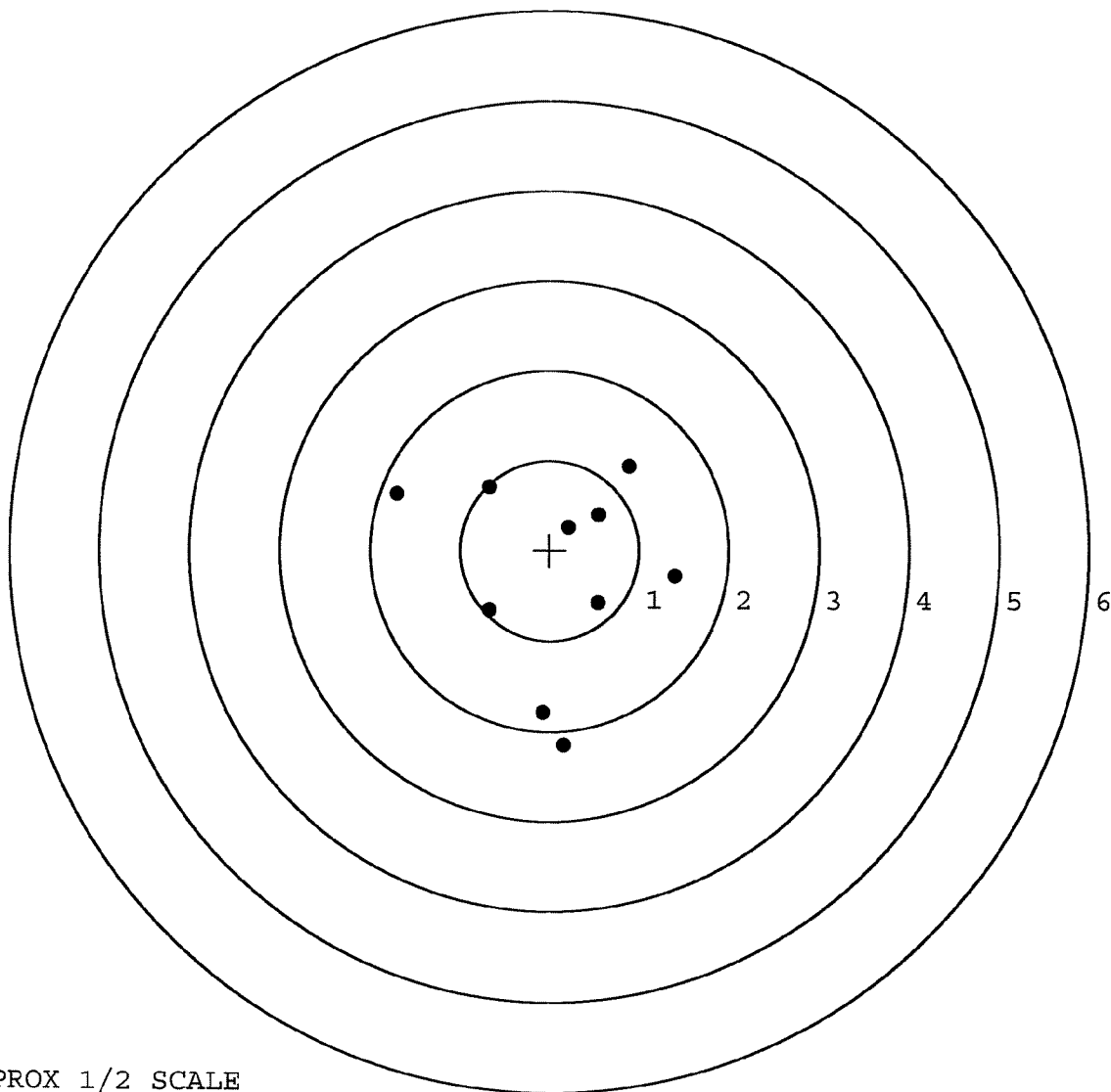
MAX RADIUS: 1.974

MEAN RADIUS: 1.220

IN 1 IN DIAMETER: 0

IN 2 IN DIAMETER: 4

in 3 IN DIAMETER: 7



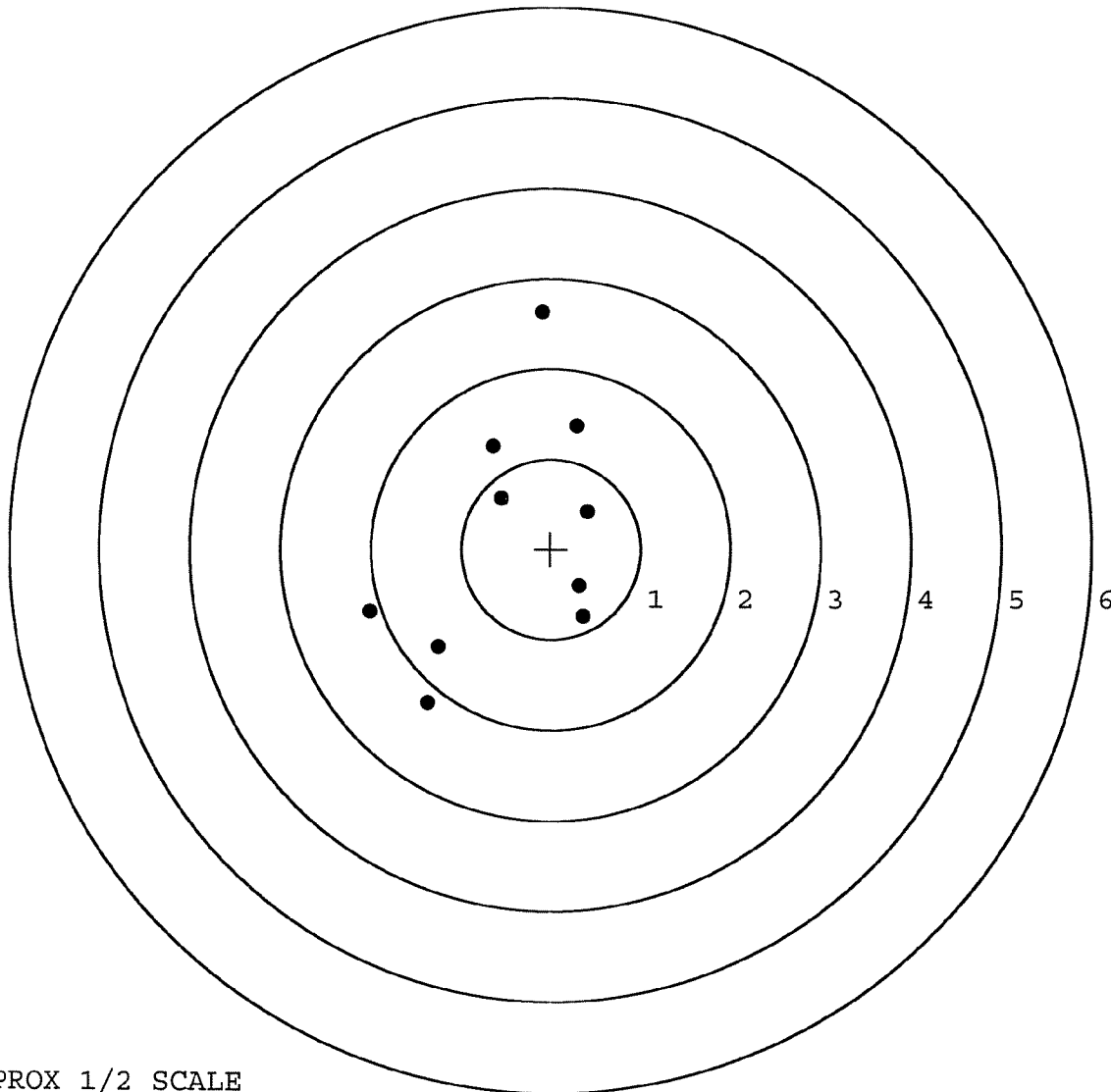
TARGET APPROX 1/2 SCALE

BARBER - M24 0011116

SERIAL NUMBER: C6225232. 1
 TARGET NUMBER: 3
 FILE DATE: 09/06/2005
 FILE TIME: 07:05

POINT#	X	Y
1:	0.362	-0.747
2:	0.317	-0.413
3:	0.410	0.418
4:	-0.559	0.563
5:	-0.647	1.144
6:	0.289	1.370
7:	-0.098	2.626
8:	-1.250	-1.093
9:	-2.011	-0.696
10:	-1.373	-1.712

X CENTROID: -0.456
 Y CENTROID: 0.146
 POA TO CENTROID: 0.479
 HORZ SPREAD: 2.421
 VERT SPREAD: 4.338
 GROUP SPREAD: 4.521
 MIN RADIUS: 0.430
 MAX RADIUS: 2.506
 MEAN RADIUS: 1.377
 # IN 1 IN DIAMETER: 1
 # IN 2 IN DIAMETER: 3
 # in 3 IN DIAMETER: 7



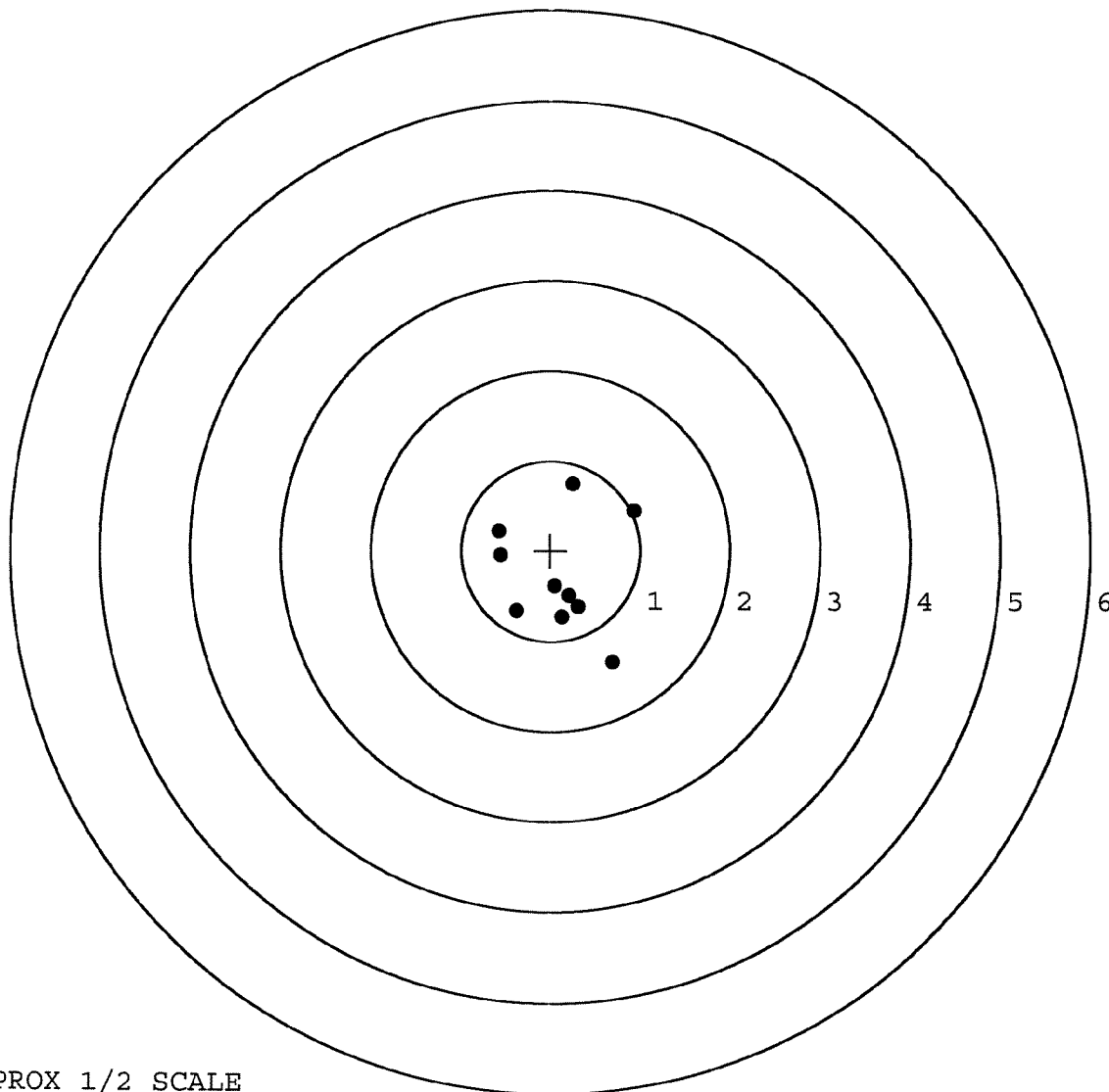
TARGET APPROX 1/2 SCALE

BARBER - M24 0011117

SERIAL NUMBER: C6225232. __1
 TARGET NUMBER: 4
 FILE DATE: 09/06/2005
 FILE TIME: 07:05

POINT#	X	Y
1:	0.694	-1.233
2:	0.931	0.442
3:	0.253	0.745
4:	-0.386	-0.671
5:	-0.562	-0.054
6:	-0.584	0.220
7:	0.052	-0.397
8:	0.207	-0.501
9:	0.310	-0.622
10:	0.129	-0.738

X CENTROID: 0.104
 Y CENTROID: -0.281
 POA TO CENTROID: 0.300
 HORZ SPREAD: 1.515
 VERT SPREAD: 1.978
 GROUP SPREAD: 2.027
 MIN RADIUS: 0.127
 MAX RADIUS: 1.120
 MEAN RADIUS: 0.666
 # IN 1 IN DIAMETER: 4
 # IN 2 IN DIAMETER: 7
 # in 3 IN DIAMETER: 10



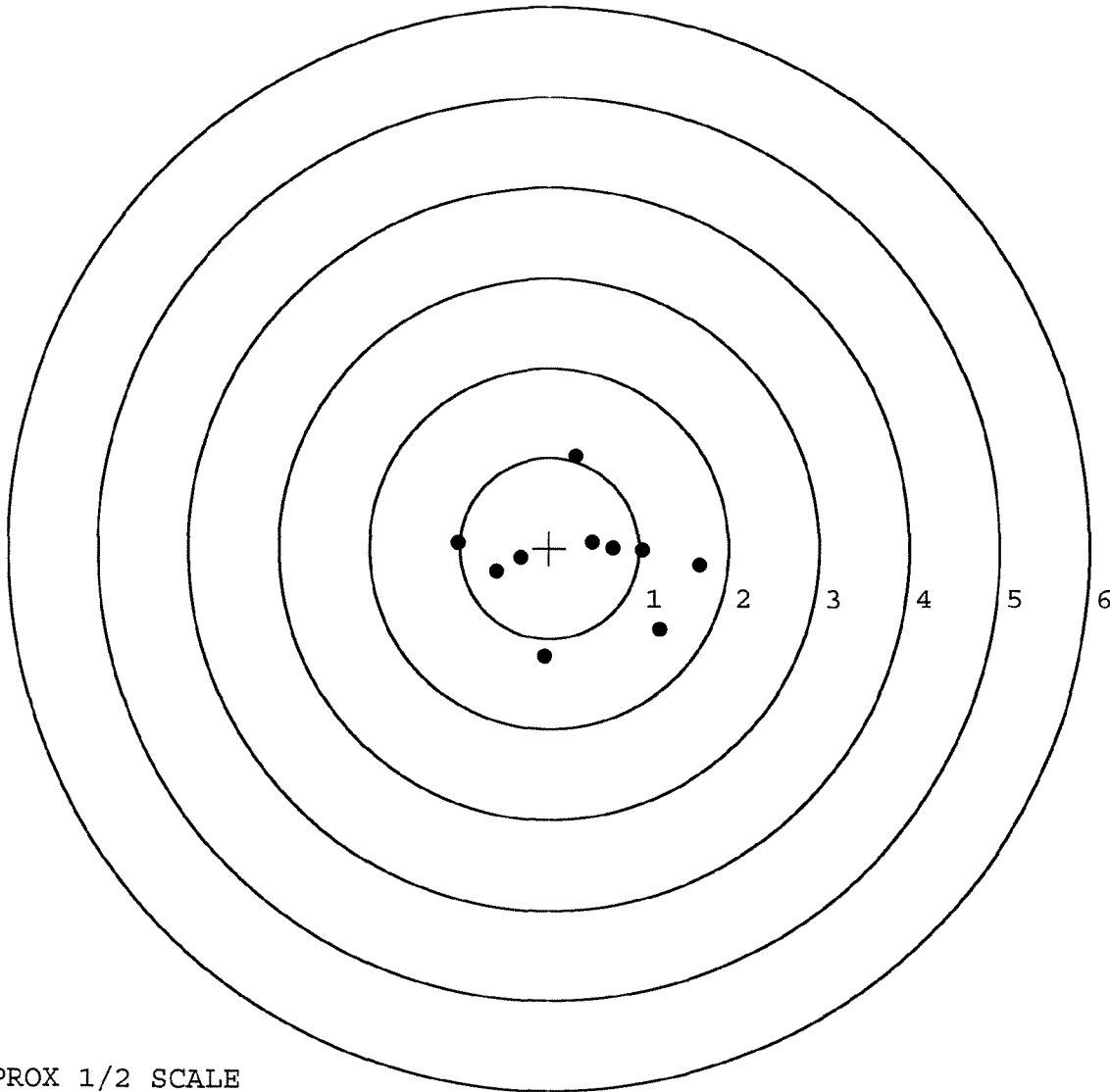
TARGET APPROX 1/2 SCALE

BARBER - M24 0011118

SERIAL NUMBER: C6225232. __1
 TARGET NUMBER: 5
 FILE DATE: 09/06/2005
 FILE TIME: 07:05

POINT#	X	Y
1:	1.670	-0.188
2:	1.230	-0.894
3:	1.040	-0.026
4:	0.707	0.003
5:	0.478	0.069
6:	-0.325	-0.102
7:	-0.598	-0.254
8:	-1.026	0.062
9:	-0.049	-1.204
10:	0.298	1.016

X CENTROID: 0.343
 Y CENTROID: -0.152
 POA TO CENTROID: 0.375
 HORZ SPREAD: 2.696
 VERT SPREAD: 2.220
 GROUP SPREAD: 2.708
 MIN RADIUS: 0.259
 MAX RADIUS: 1.385
 MEAN RADIUS: 0.914
 # IN 1 IN DIAMETER: 2
 # IN 2 IN DIAMETER: 5
 # in 3 IN DIAMETER: 10



TARGET APPROX 1/2 SCALE

M-24 INSPECTION CHECKLIST
 CONTRACT #: DAAE-20-02-D-0127

R & E NUMBER	93 00 8		
SERIAL NUMBER	C 622 5232		
LOG-IN DATE	2-3-05		
INSPECT AND VERIFY:			
OPERATION #	OPERATION NAME	DATE	INITIAL
550	DIS-ASSEMBLE GUN	8-17-05	RTZ
560 A	RE-BARREL	8-23-05	RTZ
B	DRILL AND TAP	8-25-05	TKW
575	ASSEMBLE	8-24-05	RTZ
600	PROOF	8-24-05	AC
605	CHECK HEADSPACE	8-24-05	AC
610	DIS-ASSEMBLE GUN	8-25-05	RTZ
612	MAGNAFLUX <i>WMS</i>	8/25/05	<i>WMS</i>
615	ROLLMARK CALIBER	8-25-05	CW
618	ROTO-BLAST	8-26-05	WB
620	APPLY COATINGS	8/29/05	ZB
625 A	FINAL ASSEMBLY	9-1-05	RTZ
B	TRIGGER PULL TEST		
C	SAFETY "ON" FORCE	9-7-05	AC
D	SAFETY "OFF" FORCE	9-7-05	AC
E	FIRING PIN INDENT	9-7-05	AC
640	TARGET	9-6-05	TKW
655	FINAL INSPECT	9-7-05	AC
660	PACK	9-10-05	DA
		SHIP DATE	
		QAR INSPECTION DATE	

M-24

CONTRACT # DAAA21-87-C-0086

GUN SERIAL # *C6225232*

OPERATION		DATE	INT
#	NAME		
575-580	ASSEMBLY	<i>1/22</i>	<i>FB</i>
600	PROOF	<i>1/28/88</i>	<i>RW</i>
615	MAGNAFLUX BARREL	<i>2/18/88</i>	<i>P/C</i>
	MAGNAFLUX BOLT	<i>5/13/88</i>	<i>P/C</i>
620	COATING	<i>8/11/88</i>	<i>TJA</i>
625-630	FINAL ASSEMBLY		
635	TEST		
640	TARGET		
	FIRING PIN INDENT		
660	PACK		

M-24

CONTRACT # DAAA21-87-C-0086

GUN SERIAL # C6225232

OP.#	OP. NAME	READINGS	DATE	INITIAL
575 & 580	Assemble Action and stock			
600	Proof			
607	Check Headspace			
610	Dis-assemble gun			
612	Magnaflux Barrel Action	QUALITY AUDIT		
	Magnaflux Bolt			
615	Rollmark Caliber			
617	Drill & Tap Sight Holes			
618	Polish Barrel			
620	Apply Coatings (Barrel Action)			
	Apply Coatings (Bolt)			
625	Final Assembly A) Clean inside of Bolt Assembly		9/7/88	RW
	B) Inspect Rear Firing Pin Hole for Chamfer in Bolt Head		9/7/88	RW
	C) Inspect Ejector Hole for Chamfer		9/7/88	RW

OVER

C-6625232

OP.#		READINGS	DATE	INITIAL
625 cont.	D) Oil Firing Pin Ass'y		9/7/88	RW
	E) Adjust Trigger Pull to Min. Setting and Stake		7 Sept 88	AS
	F) Safety on Force	5.5 5 5	7 Sept 88	AS
	G) Safety off Force	4 3.25 4	7 Sept 88	AS
	H) Trigger Pull Test & Retainability		7 Sept 88	AS
	I) Firing Pin Indent	.0225 .0225 .0225	7 Sept 88	AS
	J) Assemble Stock		9/20/88	RW
	K) Assemble Swivel Studs		10-10-88	AS
	L) Attach Front & Rear Sight Assemblies		9/20/88	RW
	M) Iron Sight Alignment		9/20/88	RW
	N) Detach Front & Rear Sights & place in numbered container		9/20/88	RW
	O) Attach Scope to Rifle		10/7/88	RW
	P) Detach & Attach Scope 20 times		10-4-88	AS
640	Gallery Target & Test	73 R 82 L	10/7/88	D/H
	A) Optical Clarity of Scope		10/7/88	SC
645	Inspect for Live Ammo		10/7/88	SC
655	Final Inspection			
	A) Headspace		10-10-88	AS
	B) Trigger Pull		10-10-88	AS
	C) Function		10-10-88	AS
660	Pack		10-21-88	AS

AVERAGE PULL FORCE BETWEEN
INITIAL & CYCLE TESTS
2.50# ± .50#
3.00# ± .75#
4.00# ± 1.00#

SERIAL NO. C6225232DATE 7 Sept 88TESTER W.S.

	2.50# INITIAL	2.50# AFTER 50 CYCLES	FINAL TEST & TO RESET 2.50#		COMMENTS
PULL #1	2.62	2.17	2.26	2.73	MIN. SETTING, NO AVG. OF 5 READINGS ACCEPT- ABLE LESS THAN 2#
PULL #2	2.47	2.23	2.43	2.96	
PULL #3	2.55	2.22	2.28	2.93	
PULL #4	2.48	2.29	2.31	2.57	
PULL #5	2.42	2.16	2.24	2.75	
TOTAL	12.54	11.07	11.57	13.94	
AVG.	2.508	2.214	2.314	2.788	

	3.00# INITIAL	3.00# AFTER 20 CYCLES		COMMENTS
PULL #1	3.14	3.16		
PULL #2	3.14	3.16		
PULL #3	3.17	3.17		
PULL #4	3.16	3.19		
PULL #5	3.14	3.20		
TOTAL	15.75	15.88		
AVG.	3.15	3.176		

	4.00# INITIAL	4.00# AFTER 20 CYCLES	MAX SETTING GREATER THAN 4#	RESET TO 4# FOR TARGET & ACCURACY
PULL #1	4.12	3.87	4.15	4.14
PULL #2	4.07	3.88	4.11	4.15
PULL #3	4.13	3.88	4.12	4.13
PULL #4	4.04	3.87	4.05	4.14
PULL #5	4.09	3.92	4.00	4.07
TOTAL	20.45	19.42	20.43	20.63
AVG.	4.09	3.884	4.086	4.126

CENTROIDAL DISTANCE CALCULATIONS
FOR RIFLE # C6225332

CENTROIDAL DISTANCES

0	TO	1	.864773
1	TO	2	.535182
1	TO	3	1.69056
1	TO	4	.808941
1	TO	5	.768118

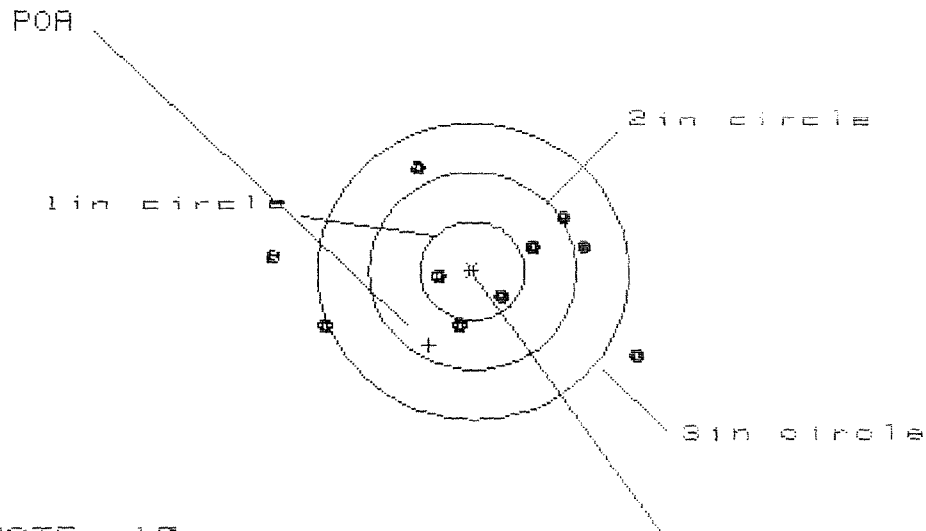
$\begin{matrix} 4 \\ 5 \end{matrix} \begin{matrix} 1 \\ 2 \end{matrix}$
 $\begin{matrix} 3 \\ 4 \end{matrix}$ + <----POA

THE AVERAGE X-COORDINATE FOR THIS RIFLE IS: -.2152
 THE AVERAGE Y-COORDINATE FOR THIS RIFLE IS: .4
 THE RESULTING AVERAGE POI RADIUS FOR THIS RIFLE IS: .454215
 THE AMR FOR THIS RIFLE IS: 1.09

7 Oct 1986

FILE:/PATTERNING/CENTERFIRE_PATT/08225232

CENTERFIRE PATTERNS # 1



OF SHOTS- 10

IN CIR

1 in = 2

2 in = 5

3 in = 8

HS= 3.494

VS= 1.926

GS= 3.628

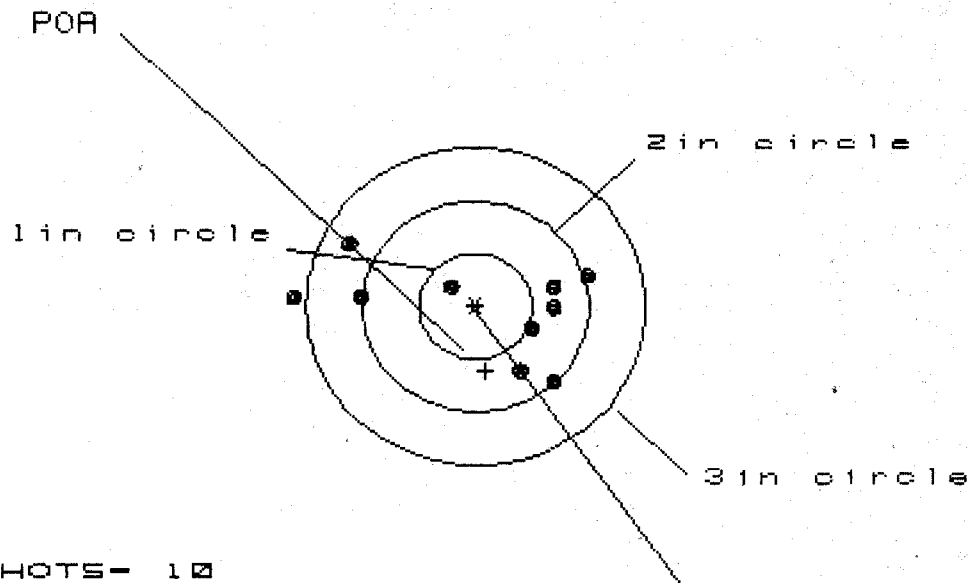
CENTROID #

PATTERN #	:	1	9	8
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.534	1.316	.984
MINIMUM X	:	-1.960	-1.597	-1.432
MAXIMUM Y	:	1.053	1.064	.957
MINIMUM Y	:	-.873	-.862	-.636
CENTROID X	:	.427	.645	.480
CENTROID Y	:	.752	.741	.843
POA TO CENTROID in.	:	.865	.982	.975
MIN RADIUS	:	.320	.237	.385
MEAN RADIUS	:	1.028	.897	.819
MAX RADIUS	:	1.963	1.682	1.567
HORIZONTAL SPREAD	:	3.494	2.913	2.416
VERTICAL SPREAD	:	1.926	1.926	1.593
EXTREME SPREAD	:	3.628	2.932	2.542
NUMBER IN ONE INCH CIRCLE	=	2		
NUMBER IN TWO INCH CIRCLE	=	5		
NUMBER IN THREE INCH CIRCLE	=	8		

7 Oct 1988

FILE:/PATTERNING/CENTERFIRE_PATT/06225232

CENTERFIRE PATTERNS # 2



OF SHOTS- 10

IN CIR

1 in = 1

2 in = 8

3 in = 9

HS= 2.540

VS= 1.321

GS= 2.543

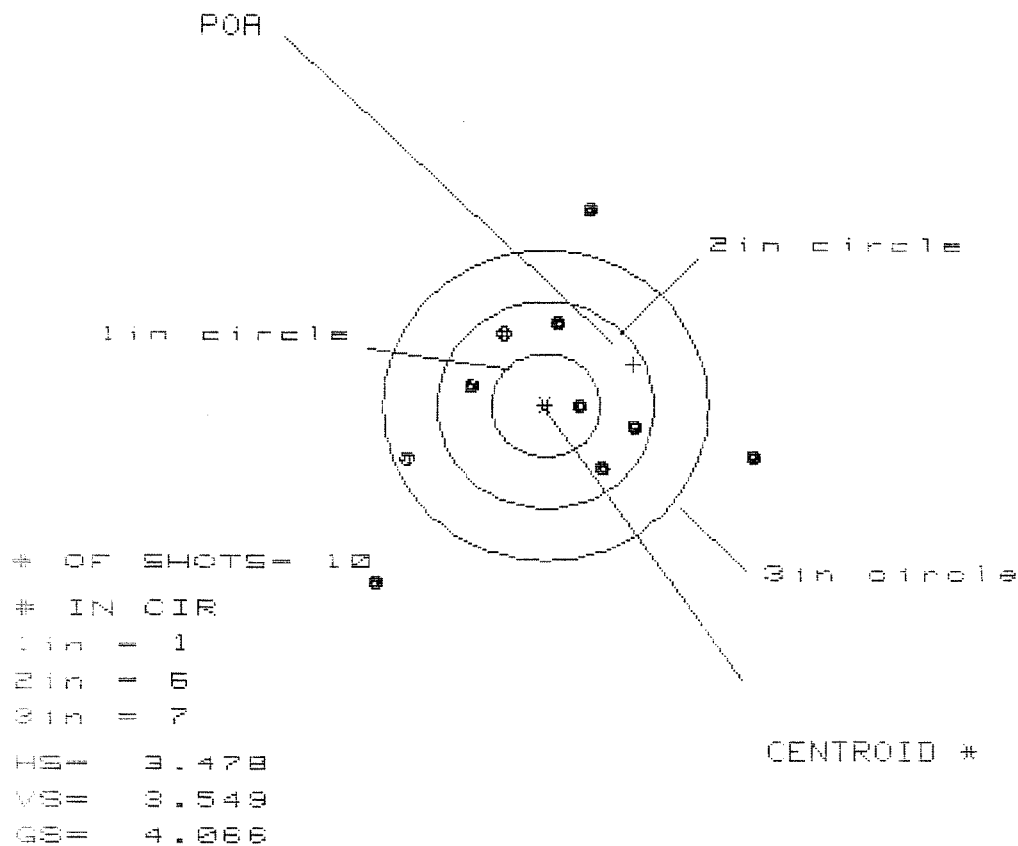
CENTROID *

PATTERN #	:	10	9	8
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	.947	.770	.611
MINIMUM X	:	-1.593	-1.279	-1.298
MAXIMUM Y	:	.604	.618	.339
MINIMUM Y	:	-.718	-.703	-.626
CENTROID X	:	-.089	.088	.247
CENTROID Y	:	.610	.595	.518
POA TO CENTROID in.	:	.616	.601	.574
MIN RADIUS	:	.269	.390	.212
MEAN RADIUS	:	.866	.740	.599
MAX RADIUS	:	1.598	1.420	1.317
HORIZONTAL SPREAD	:	2.540	2.049	1.909
VERTICAL SPREAD	:	1.321	1.321	.965
EXTREME SPREAD	:	2.543	2.205	1.913
NUMBER IN ONE INCH CIRCLE	=		1	
NUMBER IN TWO INCH CIRCLE	=		8	
NUMBER IN THREE INCH CIRCLE	=		9	

7 Oct 1988

FILE:/PATTERNING/CENTERFIRE_PATT/08225232

CENTERFIRE PATTERNS # 3

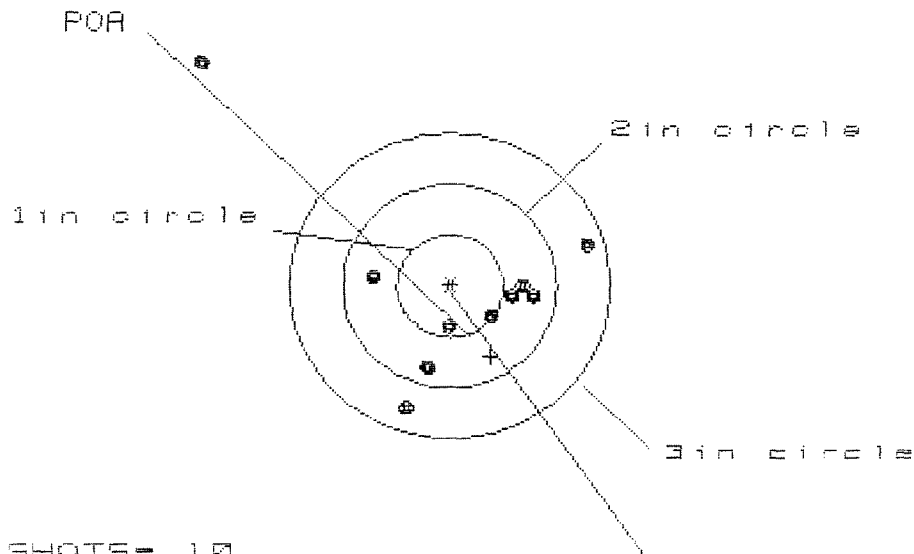


PATTERN #	3	3	3
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.873	1.694	.836
MINIMUM X	-1.605	-1.428	-1.216
MAXIMUM Y	1.875	1.689	1.597
MINIMUM Y	-1.674	-.784	-.876
CENTROID X	-.814	-.635	-.847
CENTROID Y	-.396	-.210	-.118
POA TO CENTROID in.	.905	.669	.855
MIN RADIUS	.270	.226	.425
MEAN RADIUS	1.173	1.021	.987
MAX RADIUS	2.319	1.847	1.650
HORIZONTAL SPREAD	3.478	3.122	2.852
VERTICAL SPREAD	3.549	2.473	2.473
EXTREME SPREAD	4.066	3.122	2.987
NUMBER IN ONE INCH CIRCLE =	1		
NUMBER IN TWO INCH CIRCLE =	6		
NUMBER IN THREE INCH CIRCLE =	7		

7 Oct 1988

FILE:/PATTERNING/CENTERFIRE_PATT/C6225232

CENTERFIRE PATTERNS # 4



OF SHOTS = 10

IN CIR

1 in = 1

2 in = 7

3 in = 9

HS = 3.580

VS = 3.351

GS = 3.984

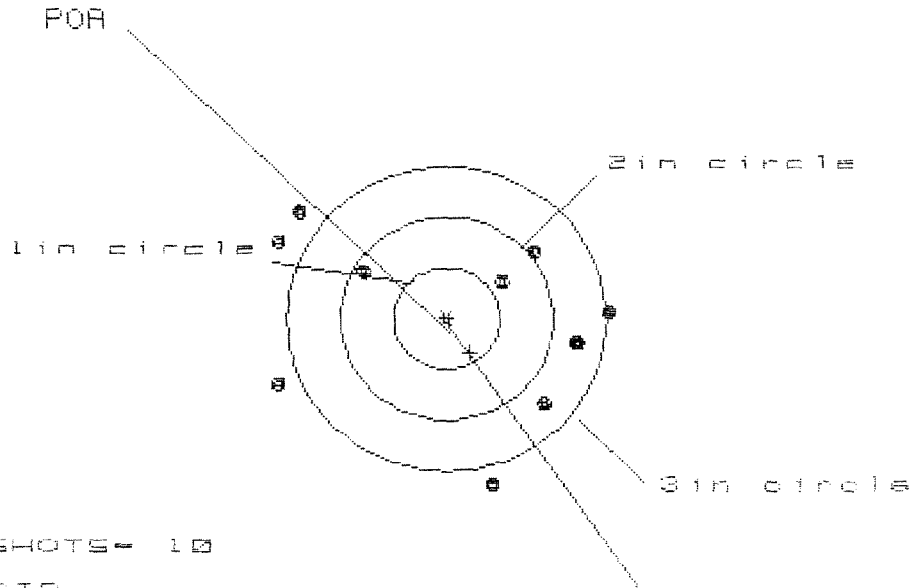
CENTROID #

PATTERN #	:	4		
SHOTS (BEST OF)	:	10	9	8
MAXIMUM X	:	1.254	.995	.612
MINIMUM X	:	-2.326	-.941	-.816
MAXIMUM Y	:	2.202	.698	.411
MINIMUM Y	:	-1.149	-.904	-.817
CENTROID X	:	-.380	-.121	-.246
CENTROID Y	:	.696	.451	.364
POA TO CENTROID in.	:	.793	.467	.439
MIN RADIUS	:	.367	.168	.167
MEAN RADIUS	:	1.019	.661	.599
MAX RADIUS	:	3.203	1.216	.993
HORIZONTAL SPREAD	:	3.580	1.936	1.428
VERTICAL SPREAD	:	3.351	1.602	1.228
EXTREME SPREAD	:	3.984	2.324	1.602
NUMBER IN ONE INCH CIRCLE	=		1	
NUMBER IN TWO INCH CIRCLE	=		7	
NUMBER IN THREE INCH CIRCLE	=		9	

7 Oct 1988

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CENTERFIRE PATTERNS # 5



OF SHOTS- 10

IN CIR

1 in = 1

2 in = 2

3 in = 5

HS= 3.163

VS= 2.629

GS= 3.246

CENTROID #

PATTERN #	5		
SHOTS (BEST OF)	10	9	8
MAXIMUM X	1.539	1.358	1.161
MINIMUM X	-1.624	-1.767	-1.964
MAXIMUM Y	1.019	1.104	.920
MINIMUM Y	-1.610	-1.525	-1.387
CENTROID X	-.220	-.039	.158
CENTROID Y	.338	.253	.115
POA TO CENTROID in.	.403	.256	.195
MIN RADIUS	.613	.554	.613
MEAN RADIUS	1.362	1.283	1.164
MAX RADIUS	1.798	1.924	2.015
HORIZONTAL SPREAD	3.163	3.125	3.125
VERTICAL SPREAD	2.629	2.629	2.307
EXTREME SPREAD	3.246	3.206	3.206
NUMBER IN ONE INCH CIRCLE =		0	
NUMBER IN TWO INCH CIRCLE =		2	
NUMBER IN THREE INCH CIRCLE =		5	